Doc Code:

DECLARATION FOR UTILITY OR

DESIGN

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PTO/SB/01 (10-05) Approved for use through 07/31/2008. OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Flora Tak Tak Ng, et al

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Attomey Docket Number

First Named Inventor

PATENT AP	COMPLETE IF KNOWN					
(37 CF	R 1.63)		Application I	Number 1	0/582,333	
Declaration Submitted OR with Initial	Declaration Submitted after Initial		Filing Date	J	une 9, 2006	
			Art Unit			
Filing	Filing (surcharge (37 CFR 1.16(e))		Examiner N	ame		
I hereby declare that: Each inventor's residence, malling address, and citizenship are as stated below next to their name.						
I believe the inventor(s) named to and for which a patent is sought	elow to be the	original and first inv				ed
COMPOSITE CATALYST FOR THE SELECTIVE OLIGOMERIZATION OF LOWER ALKENES AND PRODUCTION OF HIGH OCTANE PRODUCTS						
		(Title of the	Invention)			1
the specification of which Is attached hereto OR was filed on (MM/DD/YYYY) December 10, 2004 as United States Application Number or PCT International Application Number PCT/CA2004/002111 and was amended on (MM/DD/YYYY) See Appendex A (if applicable).						
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for						
continuation-in-part applications the national or PCT international	s, material info	mation which beca	me available	e between the fili	ng date of the	prior application and
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the						
Prior Foreign Application Number(s)	Country	Foreign Filing (MM/DD/YY	Date YY)	Priority Not Claimed	Certifie YES	d Copy Attached? S NO
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.						

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION — Utility or Design Patent Application

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	v	VARNING	}:			
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal Information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may leopardize the validity of the application or any patent issued thereon.						
NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any]) Family Name or Surname					ne	
Flora Tak Tak Ng						
Inventor's Signature Date Unt 29, wo 6						
Residence: City Stat				Country	Citizenship	
Waterloo On			Canada CANADA			
Mailing Address						
532 Sandbrooke Court						
City	City State				Country	
Waterloo Ontario			N2T 2H4 Canada			
\(\bar{\supplemental} \) Additional inventors or a legal representative are being named on \(\bar{\supplemental} \) supplemental sheet(s) PTO/SB/02A or 02LR are attached						

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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet

Page 3 of 3

Name of Additional Joint Inventor, if any:						n has been filed for this unsigned inventor		
Given Name (first and middle (if anyl)					Family Na	me or	Sumame	
Garry Llewellyn				npel				
Inventor's Signature	Harry & Reny			nel			Sept 29, 2006	
Residence: City	Waterloo	State Ontar	rio	Country	Canada		Citizenship CANADA	
Mailing Address	532 Sandbrooke Court							
City	Waterloo	Waterloo State Ontario ZIP N2T 2H4 Co		Count	intry Canada			
Name of Addition	al Joint Inventor, if any:			A petitio	on has been file	d for t	his unsigned inventor	
Given Na	me (first and middle (if any))			Family Name or Surname				
Bongani				Nkosi				
Inventor's Signature	B.N	K051	ĺ				Date 11/09/06	
Residence: City	Vanderbijlpark	State		Country	South Africa	a	Citizenship South Africa	
Mailing Address	17, Jacob Street			···•		-		
City	Vanderbijlpark	State		ZIP	1911	Cor	untry South Africa	
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor						this unsigned inventor		
Given Name (first and middle [if any])				Family Name or Sumame				
triventor's Signature			_				Date	
Residence: City		State		Country			Citizenship	
Mailing Address								
City		State		ZIP			Country	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office. U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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APPENDEX A

- (1) Amendment made under Article 34 of the PCT on June 6, 2005
- (2) Amendment made under Article 34 of the PCT on February 22, 2006

Doc Code:

PTO/SB/81 (01-06)

Doc Code:

Approved for use through 12/31/2008. OMB 0651-0035

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POWER OF ATTORNEY CORRESPONDENCE ADDRESS INDICATION FORM

10/582,333
June 9, 2006
Flora Tak Tak Ng, et al
Composite Catalyst for the Selective

I here	by revoke all p	reviou	s powers of attorney given in the a	above-identi	fied applicatior	า.		
I here	by appoint:	-						
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	OR							
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I am	I am the:							
Applicant/Inventor.								
Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).								
SIGNATURE of Applicant or Assignee of Record								
Signa	ture		alen Just			Date	ept. 26, 2006	
Name			Alan George			Telephone 5	19-888-4889	
Title and Company Vice-President University Research								
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple								
<u> </u>	*Total of	1	forms are submitted.					

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: Flora Tak Tak Ng, et al Application No./Patent No./Control No.: 10/582,333 Filed/Issue Date: June 9, 2006 Entitled: COMPOSITE CATALYST FOR THE SELECTIVE OLIGOMERIZATION OF LOWER ALKENES AND PRODUCTION OF HIGH OCTANE PRODUCTS University of Waterloo , a University (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) (Name of Assignee) states that it is: the assignee of the entire right, title, and interest; or an assignee of less than the entire right, title and interest The extent (by percentage) of its ownership interest is _____ % in the patent application/patent identified above by virtue of either: An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at ___, Frame _______, or a true copy of the original is attached. OR A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: The document was recorded in the United States Patent and Trademark Office at Reel ______, Frame _____, or for which a copy thereof is attached. 2. From: The document was recorded in the United States Patent and Trademark Office at Reel _____ , Frame _____ , or for which a copy thereof is attached. 3. From: The document was recorded in the United States Patent and Trademark Office at Reel _____ , Frame _____ , or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet. As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. INOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Sept. 26, 2006 Date 519-888-4889 Vice-President, University Research Printed or Typed Name

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ASSIGNMENT

WHEREAS, we, Flora Tak Tak Ng, Garry Llewellyn Rempel and Bongani Nkosi, citizen(s) of Canada, Canada and South Africa, respectively, residing at 532 Sandbrooke Court, Waterloo, Ontario, N2T 2H4, Canada; 532 Sandbrooke Court, Waterloo, Ontario, N2T 2H4, Canada; and 17, Jacob Street, 1911 Vanderbijlpark, South Africa, respectively (hereinafter referred to as the "Assignors"), have made certain inventions and discoveries disclosed in United States Patent Application Serial No. 10/582,333 filed on June 9, 2006 entitled COMPOSITE CATALYST FOR THE SELECTIVE OLIGOMERIZATION OF LOWER ALKENES AND PRODUCTION OF HIGH OCTANE PRODUCTS (hereinafter referred to as the "Application") which was filed as a National Phase Entry of International PCT Patent Application Serial No. PCT/CA2004/002111 filed on December 10, 2004 claiming priority from United States Patent Application Serial No. 60/528,699 filed on December 12, 2003;

AND WHEREAS, University of Waterloo, whose full post office address is 200 University Avenue West, Needles Hall, Room 3005, Waterloo, Ontario, N2L 3G1, Canada (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions and discoveries, and in and to the Applications inclusive of any and all priority rights derived therefrom for any and all countries in the world, and in and to any and all Letters Patent issuing in any and all countries in the world, to be granted for said inventions and discoveries based on said Applications or on patent applications filed in any country claiming priority from said Applications;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the Assignors, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, our entire right, title, and interest in and to the inventions and discoveries disclosed in the Applications, and in and to the Applications and any continuations or divisions thereof and all priority rights derived therefrom, and in and to any and all patent applications and any continuations or divisions thereof filed in any country claiming priority from the Applications, and in and to all Letters Patent which may be granted upon the Applications or upon patent applications filed in any and all countries in the world including the United States of America, claiming priority from the Applications, and in and to any and all reissues, substitutions, or prolongations thereof; the same to be held and enjoyed by the Assignee for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which said Letters Patent, or reissues, substitutions, or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND we hereby agree that, upon request, and without further consideration, but at the expense of the Assignee, we will communicate to the Assignee or its representatives or nominees any facts known to us respecting said inventions and discoveries and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said inventions and discoveries in all countries, and we further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to said inventions and discoveries, and in and to any and all Letters Patent or reissues thereof which may be granted upon applications in any and all countries in the world.

AND we hereby authorize and request any official whose duty it is to issue patents to issue each and every Letters Patent to be granted upon the aforesaid Applications in any and all countries, and each and every reissue of said Letters Patent, to the Assignee, its successors and assigns, as the assignee of our entire right, title and interest therein, in accordance with this assignment.

THIS assignment made effective as of December 12, 2003.

51 RUBENS STA SASOLBURG

SIGNED this 29 day of	Alptember	, 2006.
WITNESS	FLORA TAK TAK	ICL NG
SIGNED this 27 day of	September	, 2006.
WITNESS	GARRY LLEWELL	LECUTE L
SIGNED this day of	11 September	, 2006.
State	B.NA	(06i_

BONGANI NKOSI

, this day of

, 2006.

UNIVERSITY OF WATERLOO

print name

title